

As a Broadcast Engineer with over twenty years of professional experience, I am strongly opposed to the proposed internet delivery technology known as "Broadband over Power Lines" or BPL described in Docket 03-104. Broadband, harmonic-rich radio signals are typically used in these systems - and been demonstrated in trials around the world to produce very nasty interference to existing licensed radio services.

I'm concerned about the impact of these systems on radio, TV, and wireless performance. Power lines were designed for carrying 60 Hertz AC - they do not perform well as radio transmission lines, and tend to radiate such signals into the nearby area instead of delivering them to the load. And of course most radio equipment is plugged into the power line - a direct connection for the interference!

The reverse situation can also be a problem - interference from licensed radio systems to the BPL equipment. Tests demonstrate that even low power transmitters can bring BPL to its knees - that is sure to cause much upset and disappointment for the users. It is simply naive to believe that Part 15's requirement that such gear accept interference will work in this case.

The modifications necessary to allow the BPL signals to bypass power transformers are also a concern - I feel these could be a maintenance problem and pose a threat to ordinary power line operation.

Thank you for considering my views...

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